

SubConn® Power

1 contact

Connector specifications

1 kV version:

Voltage rating
Current rating

Inline and bulkhead - 1kV DC/AC rms
Inline and bulkhead - 250 A

3 kV version:

Voltage rating
Current rating

Overmould and bulkhead - 3kV DC/AC rms
Overmould and bulkhead - 90 A

Insulation resistance

> 200 Mohm

Contact resistance

< 0.01 ohm

Wet matings

> 500 (open face rated)

Temperature rating (water)

- 4 to 60°C, 25 to 140°F

Temperature rating (air)

- 40 to 60°C, - 40 to 140°F

Storage temperature rating

- 40 to 60°C, - 40 to 140°F

Qualified pressure tested

800 bar, 11,600 psi

Material specifications

Connector body

Chloroprene rubber

Bulkhead body

Brass, stainless steel or titanium

Contacts

Brass UNS - C36000

Adapter

Brass UNS - C36000

O-rings

Nitrile

Locking sleeves

POM or stainless steel

Snap rings

Stainless steel AISI 302

Inline cable (2 ft, 60 cm)

1/0 AWG, 53.46 mm² synthetic rubber

Inline cable colour code

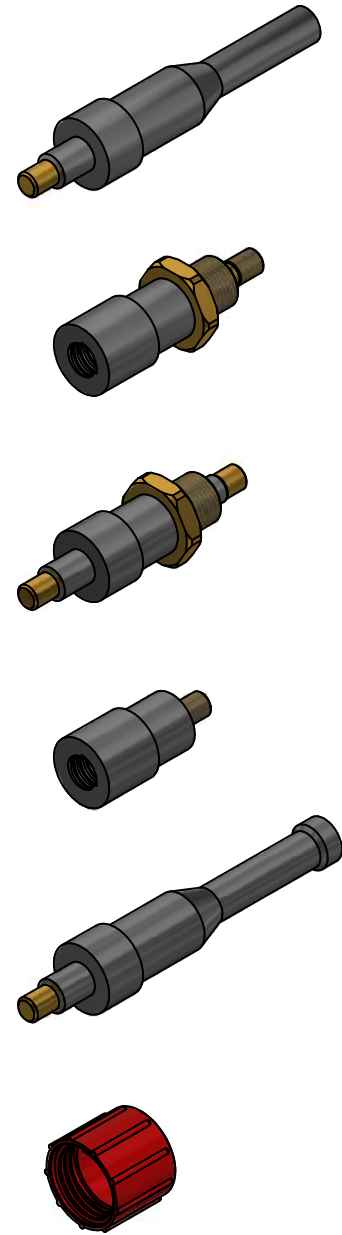
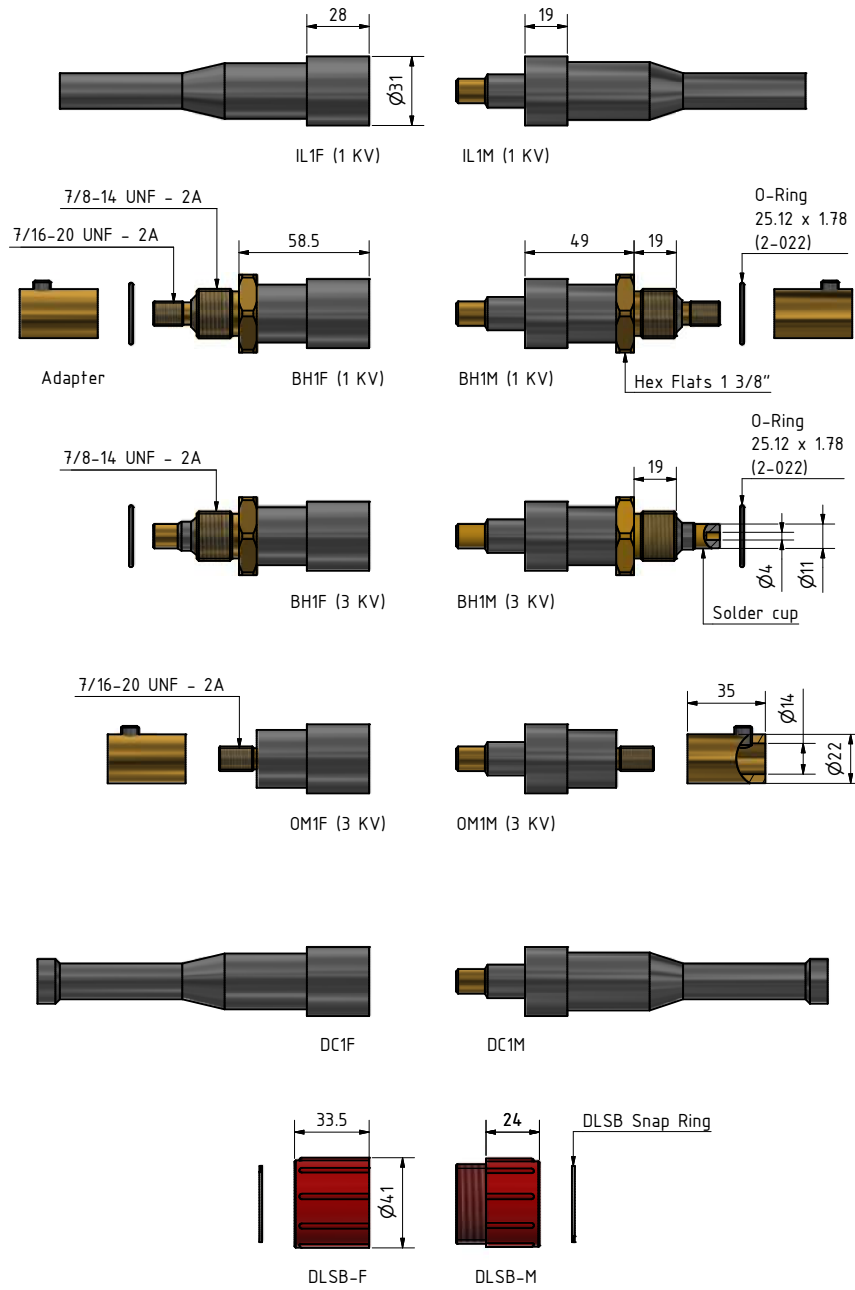
1 Black

Nominal cable outside diameter (OD)

1 conductor cable 0.6" to 0.85", 15.0 mm to 22.0 mm

Additional information

* Only if the bulkhead is mounted in non-conducting oil



Drawing information

Dimensions in mm (1 mm = 0.03937 inch)
Threads in inches (1 inch = 25.4 mm)

SubConn® Power Battery

2, 3 and 4 contacts

Connector specifications

Voltage rating	600 V DC/AC rms
Current rating	25 A per contact (max 50 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0,01 ohm
Wet matings	> 500 (open face rated)
Temperature rating (water)	- 4 to 60°C, 25 to 140°F
Temperature rating (air)	- 40 to 60°C, - 40 to 140°F
Storage temperature rating	- 40 to 60°C, - 40 to 140°F
Design depth rating	1,400 bar, 20,000 psi
Qualified pressure tested	800 bar, 11,600 psi
Depth rating PEEK	300 bar, 4,350 psi

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium, anodised aluminium or PEEK
Contacts	Gold plated brass UNS - C36000
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
2 and 3 conductor inline cable (2 ft, 60 cm)	10 AWG, 5.26 mm ² synthetic rubber
4 conductor inline cable (2 ft, 60 cm)	12 AWG, 3.30 mm ² synthetic rubber
2 and 3 contact bulkhead and PBOF leads (1 ft, 30 cm)	10 AWG, 5.26 mm ² white tagged PTFE
2 and 3 contact OM leads (3", 7 cm)	10 AWG, 5.26 mm ² white tagged PTFE
4 contact bulkhead and PBOF leads (1 ft, 30 cm)	12 AWG, 3.31 mm ² white tagged PTFE
4 contact OM leads (3", 7 cm)	12 AWG, 3.31 mm ² white tagged PTFE

Face view (male)



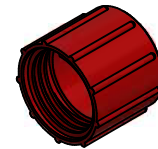
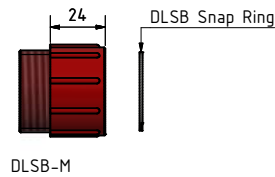
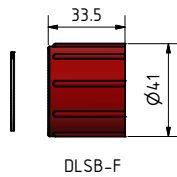
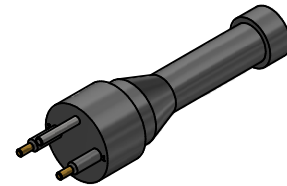
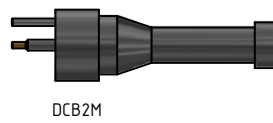
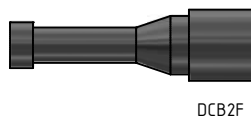
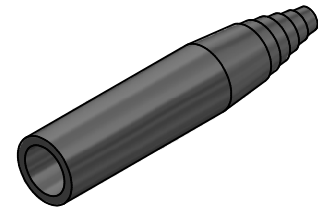
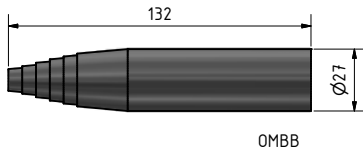
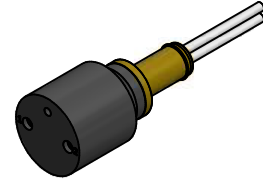
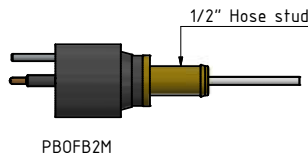
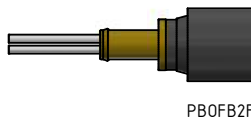
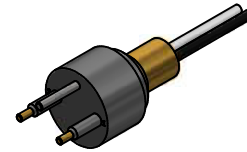
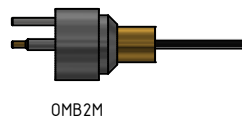
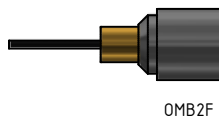
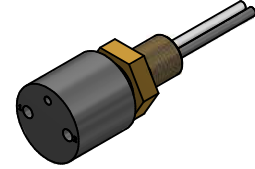
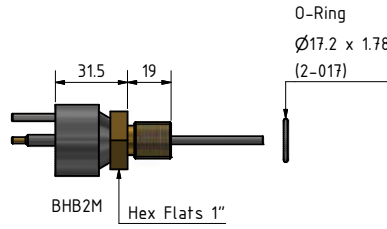
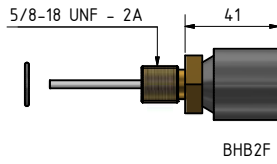
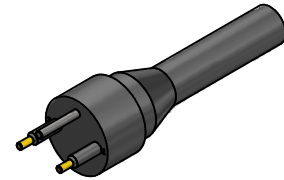
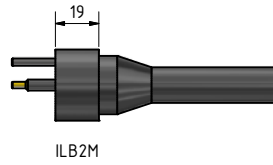
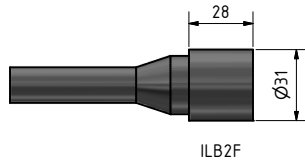
Inline cable colour code

1 Black	2 White	3 Red	4 Green
---------	---------	-------	---------

(3 conductor cable colour code: 1 black, 2 white, 3 green)

Nominal cable outside diameter (OD)

2 conductor cable 0.640", 16.3 mm
3 conductor cable 0.671", 17.0 mm
4 conductor cable 0.660", 16.8 mm



Drawing information

Dimensions in mm (1 mm = 0.03937 inch)
Threads in inches (1 inch = 25.4 mm)

SubConn® High Power

4 contacts

Connector specifications

Voltage rating	600 V DC/AC rms
Current rating (water)	50 A per contact (max 200 A per connector)
Insulation resistance	> 200 Mohm
Contact resistance	< 0.01 ohm
Wet matings	> 500 (open face rated)
Temperature rating (water)	- 4 to 60°C, 25 to 140°F
Temperature rating (air)	- 40 to 60°C, - 40 to 140°F
Storage temperature rating	- 40 to 60°C, - 40 to 140°F
Design depth rating	1,400 bar, 20,000 psi
Qualified pressure tested	800 bar, 11,600 psi
Depth rating PEEK	300 bar, 4,350 psi

Material specifications

Connector body	Chloroprene rubber
Bulkhead body	Brass, stainless steel, titanium or anodised aluminium
Contacts	Brass UNS - C36000
Location pin	Stainless steel AISI 303
O-rings	Nitrile
Locking sleeves	POM or stainless steel
Snap rings	Stainless steel AISI 302
Inline cable (2 ft, 60 cm)	8 AWG, 8.36 mm ² synthetic rubber
Bulkhead and PBOF leads (1 ft, 30 cm)	10 AWG, 5.26 mm ² tagged PTFE
OM leads (3", 7 cm)	10 AWG, 5.26 mm ² tagged PTFE

Face view (male)

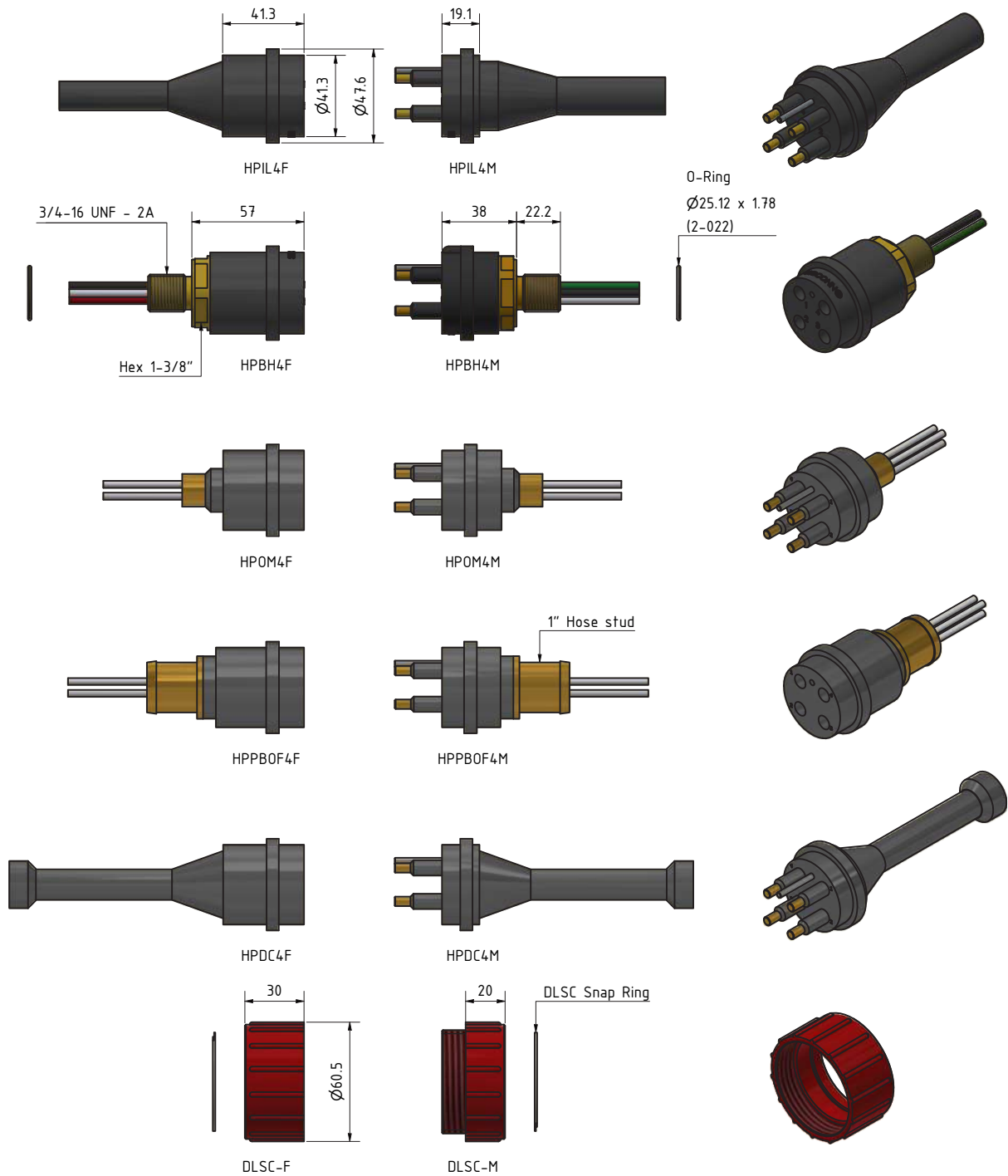


Inline cable colour code

1 Black	2 White	3 Red	4 Green
---------	---------	-------	---------

Nominal cable outside diameter (OD)

4 conductor cable 0.715", 18.2 mm



Drawing information

Dimensions in mm (1 mm = 0.03937 inch)
Threads in inches (1 inch = 25.4 mm)